

January 14, 2021

Regional Administrator
Air and Radiation Division
C/O Kathleen D'Agostino
US EPA, Region 5 (A-18J)
77 West Jackson Boulevard
Chicago, IL 60604
dagostino.kathleen@epa.gov

**Re: Hibbing Taconite Company
Semiannual Compliance Report
40 CFR 53.1235(e)(5) Regional Haze Compliance Report
Report Period: July 1 – December 31, 2020**

To Whom it May Concern:

Hibbing Taconite Company (HTC) is subject to the *Revision to 2013 Taconite Federal Implementation Plan Establishing BART for Taconite Plants* (FIP) of 40 CFR 52.1235 as published in the Federal Register on April 12, 2016. The final rule came into effect on May 12, 2016. Per this rule, HTC is required to submit a compliance report on a semiannual basis. The potential deviations and downtime noted herein are not necessarily violations of the applicable requirements. The facility preserves the right to use credible evidence to demonstrate compliance with all applicable requirements applicable during this reporting period. Appendix A contains a complete list of the process units, control devices, and CEMS covered by the compliance report. Appendix B is the Semiannual Compliance Report.

Indurating Line and Control Equipment Reporting

HTC operates three indurating furnaces - Furnace Line 1 (EU020), Furnace Line 2 (EU021), and Furnace Line 3 (EU022). During the reporting period, HTC did not have an emission limit in effect for NO_x. The emission limit of 347.4 lbs of SO₂/hr became effective on April 11, 2018. Each furnace line is controlled by four wet scrubbers. These scrubbers control particulate emissions from the furnace lines and are also considered low efficiency SO₂ control. During the reporting period there were no SSM events related to the process scrubbers. Furnace startup, shutdown, and malfunction events for this reporting period are listed within this report.

CEMS Reporting

Monitor downtime or malfunctions within the applicable reporting period have been submitted in HTC's Quarterly Excess Emissions and Monitoring System Report. All actions taken within this report were consistent with HTC's SSM plan.

Recordkeeping and Reporting Requirements

Recordkeeping and reporting deviations during the applicable reporting period are listed in the attached report. During this reporting period, there were no deviations from the recordkeeping and reporting requirements.

Certification

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Sincerely,
Hibbing Taconite Company



Edward LaTendresse
General Manager

Cc: Julie Lucas (Hibbing Taconite Company)
Rich Zavoda (Cleveland Cliffs)

Attachment A: Equipment Covered by Compliance Report

Furnace Line 1						
Emission Unit (EU)	Stack Vent (SV)	EU Description	CE Description Manufacturer Model	Manufacturer/Model	Emission Analyzed Ranges	Serial Number
020	021	Furnace Line One, Stack 1	Venturi Rod Deck Wet Scrubber Envroneering A33-200000	Teledyne Monitor Labs T200M	NO _x (H)	225
				Teledyne Monitor Labs T100H	SO ₂ (H)	137
				Sick Maihak FLSE100-H K178 35SHSHS	Stack Flow	Slave: 8398564 Master: 18118323
				Sick Maihak FLSE100-H K178 35SHSHS	Temperature	Slave: 8398564 Master: 18118323
020	022	Furnace Line One, Stack 2	Venturi Rod Deck Wet Scrubber Envroneering A33-200000	Teledyne Monitor Labs T200M	NO _x (H)	226
				Teledyne Monitor Labs T100H	SO ₂ (H)	136
				Sick Maihak FLSE100-H K178 35SHSHS	Stack Flow	Slave: 11318687 Master: 11318690
				Sick Maihak FLSE100-H K178 35SHSHS	Temperature	Slave: 11318687 Master: 11318690
020	023	Furnace Line One, Stack 3	Venturi Rod Deck Wet Scrubber Envroneering A33-200000	Teledyne Monitor Labs T200M	NO _x (H)	224
				Teledyne Monitor Labs T100H	SO ₂ (H)	134
				Sick Maihak FLSE100-H K178 35SHSHS	Stack Flow	Slave: 11318679 Master: 11318686
				Sick Maihak FLSE100-H K178 35SHSHS	Temperature	Slave: 11318679 Master: 11318686
020	024	Furnace Line One, Stack 4	Venturi Rod Deck Wet Scrubber Envroneering A33-200000	Teledyne Monitor Labs T200M	NO _x (H)	215
				Teledyne Monitor Labs T100H	SO ₂ (H)	135
				Sick Maihak FLSE100-H K178 35SHSHS	Stack Flow	Slave: 11168507 Master: 13438339
				Sick Maihak FLSE100-H K178 35SHSHS	Temperature	Slave: 11168507 Master: 13438339

Furnace Line 2						
Emission Unit (EU)	Stack Vent (SV)	EU Description	CE Description Manufacturer Model	Manufacturer/Model	Emission Analyzed Ranges	Serial Number
021	025	Furnace Line Two, Stack 4	Venturi Rod Deck Wet Scrubber Envroneering A33-200000	Teledyne Monitor Labs T200M	NO _x (H)	199
				Teledyne Monitor Labs T100H	SO ₂ (H)	119
				Sick Maihak FLSE100-H K178 35SHSHS	Stack Flow	Slave: 11318689 Master: 11318688
				Sick Maihak FLSE100-H K178 35SHSHS	Temperature	Slave: 11318689 Master: 11318688
021	026	Furnace Line Two, Stack 3	Venturi Rod Deck Wet Scrubber Envroneering A33-200000	Teledyne Monitor Labs T200M	NO _x (H)	197
				Teledyne Monitor Labs T100H	SO ₂ (H)	116
				Sick Maihak FLSE100-H K178 35SHSHS	Stack Flow	Slave: 8398565 Master: 11318672
				Sick Maihak FLSE100-H K178 35SHSHS	Temperature	Slave: 8398565 Master: 11318672
021	027	Furnace Line Two, Stack 2	Venturi Rod Deck Wet Scrubber Envroneering A33-200000	Teledyne Monitor Labs T200M	NO _x (H)	179
				Teledyne Monitor Labs T100H	SO ₂ (H)	115
				Sick Maihak FLSE100-H K178 35SHSHS	Stack Flow	Slave: 11318691 Master: 11318684
				Sick Maihak FLSE100-H K178 35SHSHS	Temperature	Slave: 11318691 Master: 11318684
021	028	Furnace Line Two, Stack 1	Venturi Rod Deck Wet Scrubber Envroneering A33-200000	Teledyne Monitor Labs T200M	NO _x (H)	198
				Teledyne Monitor Labs T100H	SO ₂ (H)	117
				Sick Maihak FLSE100-H K178 35SHSHS	Stack Flow	Slave: 11318673 Master: 11318678
				Sick Maihak FLSE100-H K178 35SHSHS	Temperature	Slave: 11318673 Master: 11318678

Furnace Line 3

Emission Unit (EU)	Stack Vent (SV)	EU Description	CE Description Manufacture Model	Manufacturer / Model	Emission Analyzed Ranges	Serial Number
022	029	Furnace Line Three, Stack 1	Venturi Rod Deck Wet Scrubber Envroneering A33-200000	Teledyne Monitor Labs T200M	NO _x (H)	213
				Teledyne Monitor Labs T100H	SO ₂ (H)	129
				Sick Maihak FLSE100-H K178 35HSHS	Stack Flow	Slave: 11318683 Master: 11318676
				Sick Maihak FLSE100-H K178 35HSHS	Temperature	Slave: 11318683 Master: 11318676
022	030	Furnace Line Three, Stack 2	Venturi Rod Deck Wet Scrubber Envroneering A33-200000	Teledyne Monitor Labs T200M	NO _x (H)	212
				Teledyne Monitor Labs T100H	SO ₂ (H)	130
				Sick Maihak FLSE100-H K178 35HSHS	Stack Flow	Slave: 11318681 Master: 11318682
				Sick Maihak FLSE100-H K178 35HSHS	Temperature	Slave: 11318681 Master: 11318682
022	031	Furnace Line Three, Stack 3	Venturi Rod Deck Wet Scrubber Envroneering A33-200000	Teledyne Monitor Labs T200M	NO _x (H)	214
				Teledyne Monitor Labs T100H	SO ₂ (H)	132
				Sick Maihak FLSE100-H K178 35HSHS	Stack Flow	Slave: 11318677 Master: 11318670
				Sick Maihak FLSE100-H K178 35HSHS	Temperature	Slave: 11318677 Master: 11318670
022	032	Furnace Line Three, Stack 4	Venturi Rod Deck Wet Scrubber Envroneering A33-200000	Teledyne Monitor Labs T200M	NO _x (H)	195
				Teledyne Monitor Labs T100H	SO ₂ (H)	131
				Sick Maihak FLSE100-H K178 35HSHS	Stack Flow	Slave: 11318671 Master: 11318680
				Sick Maihak FLSE100-H K178 35HSHS	Temperature	Slave: 11318671 Master: 11318680

**Attachment B: Regional Haze
Semiannual Compliance Report**

Semiannual Compliance Report - Federal Implementation Plan for Regional Haze

Required by 40 CFR 52.1235(e)(5)

Reporting Period: **July 1 - December 31, 2020**

Company: **Hibbing Taconite Company**
4950 County Highway 5 North
PO Box 589
Hibbing, MN 55746-0589

Periods of Startup, Shutdown, or Malfunction of Process Unit and Control Equipment						
Unit ID:	Unit Description:	Event Start Time:	Event End Time:	Duration (Minutes):	Cause:	Corrective Action:
EU21	Furnace Indurating Line 2	7/31/2020 17:02	8/3/2020 1:24	3382	Planned Shutdown	Planned shutdown of line. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	8/2/2020 11:28	8/3/2020 16:36	1748	Planned Shutdown	Planned shutdown of line. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	8/3/2020 13:39	8/4/2020 11:33	1314	Planned Shutdown	Planned shutdown of line. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	8/3/2020 17:23	8/3/2020 17:38	15	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	8/4/2020 14:49	8/4/2020 14:53	4	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	8/5/2020 16:35	8/5/2020 17:34	59	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	8/7/2020 8:49	8/7/2020 8:55	6	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.

Periods of Startup, Shutdown, or Malfunction of Process Unit and Control Equipment						
Unit ID:	Unit Description:	Event Start Time:	Event End Time:	Duration (Minutes):	Cause:	Corrective Action:
EU22	Furnace Indurating Line 3	8/9/2020 13:44	8/9/2020 14:00	16	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	8/12/2020 10:18	8/12/2020 11:02	44	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	8/13/2020 3:38	8/13/2020 3:40	2	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	8/13/2020 13:32	8/13/2020 13:42	10	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	8/13/2020 13:39	8/13/2020 14:35	56	Computer Issues	The computer system was repaired and the furnace was brought back up to normal operation. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	8/14/2020 7:18	8/14/2020 7:24	6	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	8/14/2020 21:03	8/14/2020 21:16	13	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	8/15/2020 22:22	8/15/2020 23:17	55	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	8/16/2020 8:56	8/16/2020 9:17	21	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.

Periods of Startup, Shutdown, or Malfunction of Process Unit and Control Equipment						
Unit ID:	Unit Description:	Event Start Time:	Event End Time:	Duration (Minutes):	Cause:	Corrective Action:
EU21	Furnace Indurating Line 2	8/20/2020 7:40	8/20/2020 8:40	60	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	8/20/2020 10:21	8/20/2020 11:48	87	Downstream Equipment Issues	Equipment issues downstream of furnace were repaired, furnace brought back to normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	8/21/2020 2:03	8/21/2020 2:16	13	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	8/21/2020 3:57	8/21/2020 4:03	6	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	8/21/2020 5:19	8/21/2020 5:46	27	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	8/21/2020 8:17	8/21/2020 11:15	178	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	8/22/2020 20:39	8/22/2020 20:57	18	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	8/24/2020 6:41	8/25/2020 3:10	1229	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	8/27/2020 7:28	8/27/2020 7:34	6	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.

Periods of Startup, Shutdown, or Malfunction of Process Unit and Control Equipment						
Unit ID:	Unit Description:	Event Start Time:	Event End Time:	Duration (Minutes):	Cause:	Corrective Action:
EU20	Furnace Indurating Line 1	8/27/2020 8:51	8/27/2020 9:11	20	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	8/28/2020 7:54	8/28/2020 8:40	46	Computer Issues	The computer system was repaired and the furnace was brought back up to normal operation. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	8/31/2020 8:48	8/31/2020 11:02	134	Downstream Equipment Issues	Equipment issues downstream of furnace were repaired, furnace brought back to normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	9/1/2020 7:01	9/1/2020 7:15	14	Planned Shutdown	Planned shutdown of line. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	9/1/2020 9:41	9/1/2020 9:48	7	Burner Malfunction	Burner was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	9/1/2020 10:18	9/1/2020 11:23	65	Burner Malfunction	Burner was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	9/1/2020 12:19	9/1/2020 12:50	31	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	9/1/2020 13:47	9/1/2020 14:24	37	Burner Malfunction	Burner was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	9/4/2020 10:33	9/4/2020 10:53	20	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.

Periods of Startup, Shutdown, or Malfunction of Process Unit and Control Equipment						
Unit ID:	Unit Description:	Event Start Time:	Event End Time:	Duration (Minutes):	Cause:	Corrective Action:
EU22	Furnace Indurating Line 3	9/7/2020 7:02	9/7/2020 7:17	15	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	9/7/2020 8:37	9/7/2020 8:50	13	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	9/7/2020 12:16	9/7/2020 12:18	2	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	9/9/2020 8:18	9/9/2020 8:22	4	Computer Issues	The computer system was repaired and the furnace was brought back up to normal operation. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	9/14/2020 13:15	9/14/2020 13:28	13	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	9/18/2020 9:55	9/20/2020 14:07	3132	Planned Shutdown	Planned shutdown of line. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	9/25/2020 9:34	9/25/2020 12:23	169	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	9/25/2020 9:34	9/25/2020 12:19	165	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	10/5/2020 11:57	10/5/2020 12:15	18	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.

Periods of Startup, Shutdown, or Malfunction of Process Unit and Control Equipment						
Unit ID:	Unit Description:	Event Start Time:	Event End Time:	Duration (Minutes):	Cause:	Corrective Action:
EU20	Furnace Indurating Line 1	10/6/2020 3:57	10/6/2020 4:04	7	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	10/6/2020 4:10	10/6/2020 4:16	6	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	10/6/2020 4:45	10/6/2020 4:57	12	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	10/7/2020 14:18	10/8/2020 16:15	1557	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	10/7/2020 15:47	10/8/2020 19:14	1647	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	10/7/2020 16:10	10/8/2020 16:35	1465	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	10/13/2020 12:10	10/13/2020 13:29	79	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	10/13/2020 14:02	10/13/2020 14:20	18	Computer Issues	The computer system was repaired and the furnace was brought back up to normal operation. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	10/18/2020 19:16	10/18/2020 19:30	14	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.

Periods of Startup, Shutdown, or Malfunction of Process Unit and Control Equipment						
Unit ID:	Unit Description:	Event Start Time:	Event End Time:	Duration (Minutes):	Cause:	Corrective Action:
EU22	Furnace Indurating Line 3	10/19/2020 7:31	10/19/2020 7:57	26	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	10/22/2020 9:47	10/23/2020 7:19	1292	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	10/25/2020 5:32	10/25/2020 6:48	76	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	10/27/2020 5:32	10/27/2020 6:55	83	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	10/27/2020 17:36	10/27/2020 19:07	91	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	10/28/2020 11:36	10/28/2020 11:46	10	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	11/2/2020 10:36	11/2/2020 19:04	508	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	11/2/2020 11:39	11/2/2020 18:33	414	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.

Periods of Startup, Shutdown, or Malfunction of Process Unit and Control Equipment						
Unit ID:	Unit Description:	Event Start Time:	Event End Time:	Duration (Minutes):	Cause:	Corrective Action:
EU20	Furnace Indurating Line 1	11/2/2020 11:54	11/2/2020 14:51	177	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	11/4/2020 6:20	11/4/2020 6:35	15	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	11/4/2020 6:22	11/4/2020 6:35	13	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	11/4/2020 14:02	11/4/2020 18:29	267	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	11/4/2020 14:04	11/4/2020 14:07	3	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	11/4/2020 14:27	11/4/2020 18:28	241	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	11/4/2020 20:11	11/4/2020 21:52	101	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	11/6/2020 16:45	11/6/2020 16:49	4	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	11/7/2020 9:18	11/7/2020 11:26	128	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.

Periods of Startup, Shutdown, or Malfunction of Process Unit and Control Equipment						
Unit ID:	Unit Description:	Event Start Time:	Event End Time:	Duration (Minutes):	Cause:	Corrective Action:
EU22	Furnace Indurating Line 3	11/9/2020 9:47	11/9/2020 10:25	38	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	11/9/2020 11:38	11/9/2020 11:52	14	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	11/10/2020 13:46	11/10/2020 14:36	50	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	11/11/2020 9:08	11/11/2020 9:49	41	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	11/12/2020 12:45	11/12/2020 14:19	94	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	11/18/2020 18:10	11/18/2020 22:03	233	Lack of Hearth Layer	Lack of hearth layer to the furnace line. Brought back up to normal operating condition when hearth was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	11/18/2020 18:11	11/18/2020 18:31	20	Lack of Hearth Layer	Lack of hearth layer to the furnace line. Brought back up to normal operating condition when hearth was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	11/18/2020 18:12	11/18/2020 18:33	21	Lack of Hearth Layer	Lack of hearth layer to the furnace line. Brought back up to normal operating condition when hearth was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.

Periods of Startup, Shutdown, or Malfunction of Process Unit and Control Equipment						
Unit ID:	Unit Description:	Event Start Time:	Event End Time:	Duration (Minutes):	Cause:	Corrective Action:
EU20	Furnace Indurating Line 1	11/18/2020 19:41	11/18/2020 19:52	11	Lack of Hearth Layer	Lack of hearth layer to the furnace line. Brought back up to normal operating condition when hearth was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	11/18/2020 19:44	11/18/2020 20:00	16	Lack of Hearth Layer	Lack of hearth layer to the furnace line. Brought back up to normal operating condition when hearth was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	11/21/2020 2:26	11/21/2020 2:37	11	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	11/25/2020 8:27	11/25/2020 8:48	21	Lack of Hearth Layer	Lack of hearth layer to the furnace line. Brought back up to normal operating condition when hearth was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	11/25/2020 8:28	11/25/2020 8:42	14	Lack of Hearth Layer	Lack of hearth layer to the furnace line. Brought back up to normal operating condition when hearth was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	11/25/2020 9:17	11/25/2020 9:20	3	Lack of Hearth Layer	Lack of hearth layer to the furnace line. Brought back up to normal operating condition when hearth was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	11/30/2020 15:23	11/30/2020 17:08	105	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	12/1/2020 7:25	12/1/2020 7:40	15	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.

Periods of Startup, Shutdown, or Malfunction of Process Unit and Control Equipment						
Unit ID:	Unit Description:	Event Start Time:	Event End Time:	Duration (Minutes):	Cause:	Corrective Action:
EU21	Furnace Indurating Line 2	12/4/2020 10:38	12/4/2020 12:18	100	Electrical Outage	After electrical outage, furnace was brought back up to normal operation. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	12/7/2020 12:37	12/7/2020 12:53	16	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	12/9/2020 2:18	12/9/2020 2:27	9	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	12/9/2020 13:37	12/9/2020 14:00	23	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	12/9/2020 18:48	12/12/2020 5:11	3503	Planned Maintenance	Planned maintenance occurred. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	12/11/2020 8:25	12/11/2020 8:34	9	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	12/12/2020 9:40	12/12/2020 9:48	8	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	12/12/2020 14:16	12/12/2020 14:35	19	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	12/12/2020 16:59	12/12/2020 18:07	68	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.

Periods of Startup, Shutdown, or Malfunction of Process Unit and Control Equipment						
Unit ID:	Unit Description:	Event Start Time:	Event End Time:	Duration (Minutes):	Cause:	Corrective Action:
EU20	Furnace Indurating Line 1	12/12/2020 21:15	12/12/2020 23:46	151	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	12/13/2020 23:34	12/13/2020 23:38	4	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	12/15/2020 17:38	12/15/2020 18:17	39	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	12/15/2020 19:03	12/16/2020 0:54	351	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	12/16/2020 11:07	12/16/2020 11:12	5	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	12/17/2020 15:28	12/17/2020 15:34	6	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU20	Furnace Indurating Line 1	12/18/2020 11:45	12/18/2020 12:02	17	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	12/19/2020 19:47	12/19/2020 23:56	249	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.

Periods of Startup, Shutdown, or Malfunction of Process Unit and Control Equipment						
Unit ID:	Unit Description:	Event Start Time:	Event End Time:	Duration (Minutes):	Cause:	Corrective Action:
EU21	Furnace Indurating Line 2	12/23/2020 6:45	12/23/2020 6:59	14	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	12/23/2020 19:59	12/23/2020 22:34	155	Furnace Malfunction	Furnace was repaired and brought back into normal operating condition. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	12/24/2020 15:46	12/24/2020 19:46	240	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	12/26/2020 8:43	12/26/2020 10:23	100	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU22	Furnace Indurating Line 3	12/26/2020 19:26	12/26/2020 19:27	1	Lack of Feed	Lack of feed to the furnace line. Brought back up to normal operating condition when feed was available. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	12/31/2020 0:12	12/31/2020 0:50	38	Computer Issues	The computer system was repaired and the furnace was brought back up to normal operation. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.
EU21	Furnace Indurating Line 2	12/31/2020 5:15	12/31/2020 5:23	8	Computer Issues	The computer system was repaired and the furnace was brought back up to normal operation. Followed SSM Plan to minimize emissions. Hibbing Taconite has no reason to believe any emission exceedances occurred during this period.

Semiannual Compliance Report - Federal Implementation Plan for Regional Haze
Required by 40 CFR 52.1235(e)(5)

Reporting Period: **July 1 - December 31, 2020**

Company: **Hibbing Taconite Company**
4950 County Highway 5 North
PO Box 589
Hibbing, MN 55746-0589

Periods of Excess Emissions of NO _x and SO ₂						
Unit ID:	Unit Description:	Event Start Time:	Event End Time:	Duration (Days):	Cause:	Corrective Action:
No excess emissions for SO ₂ during this reporting period. NO _x limit not yet effective.						

Semiannual Compliance Report - Federal Implementation Plan for Regional Haze

Required by 40 CFR 52.1235(e)(5)

Reporting Period: **July 1 - December 31, 2020**

Company: **Hibbing Taconite Company**
4950 County Highway 5 North
PO Box 589
Hibbing, MN 55746-0589

Description of Monitor Downtime							
Process Unit/Stack Vent:	Analyzer Analyte:	Analyzer Serial Number:	Event Start Time:	Event End Time:	Duration (Hours):	Cause:	Corrective Action:
Please refer to the Regional Haze Excess Emissions Reports.							

Semiannual Compliance Report - Federal Implementation Plan for Regional Haze
Required by 40 CFR 52.1235(e)(5)

Reporting Period: **July 1 - December 31, 2020**

Company: **Hibbing Taconite Company**
4950 County Highway 5 North
PO Box 589
Hibbing, MN 55746-0589

Recordkeeping & Reporting Deviations						
Unit ID:	Unit Description:	Event Start Time:	Event End Time:	Duration (Days):	40 CFR 52.1235 Requirement:	Cause & Corrective Action:
No deviations from the requirements of 52.1235 in regards to recordkeeping and reporting during the reporting period.						